Våg- och materiefysik Mö

33.1 [page 904]

$$I_{0} = I_{0} \qquad Q \qquad \forall i \quad \text{vet att} \quad I_{2} = 0.20 \, I_{0}.$$

$$I_{0} = I_{0} \qquad \text{gäller}, \quad da \stackrel{?}{E}_{0} \qquad \text{är polariserad},$$

$$I_{1} = \cos^{2}(\theta) \, I_{0}.$$

$$I_{1} = \cos^{2}(\frac{\pi}{2} - \theta) \, I_{1} = \sin^{2}(\theta) \, I_{1}$$

$$I_{2} = \cos^{2}(\frac{\pi}{2} - \theta) \, I_{1} = \sin^{2}(\theta) \, I_{1}$$

$$I_{2} = \sin^{2}(\theta) \cos^{2}(\theta) \, I_{0} = \left(\frac{\sin(2\theta)}{2}\right)^{2} \, I_{0}$$

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b) Om $\theta = 0$ år de två polarisationslinsema vinkelräta och inget ljus kommer förbi. Detta ser vi ochså i formeln från a): $I_2 = \sin(0)\cos(0) I_0 = 0$.

Svary: 0% av ljuset kommer igenom.